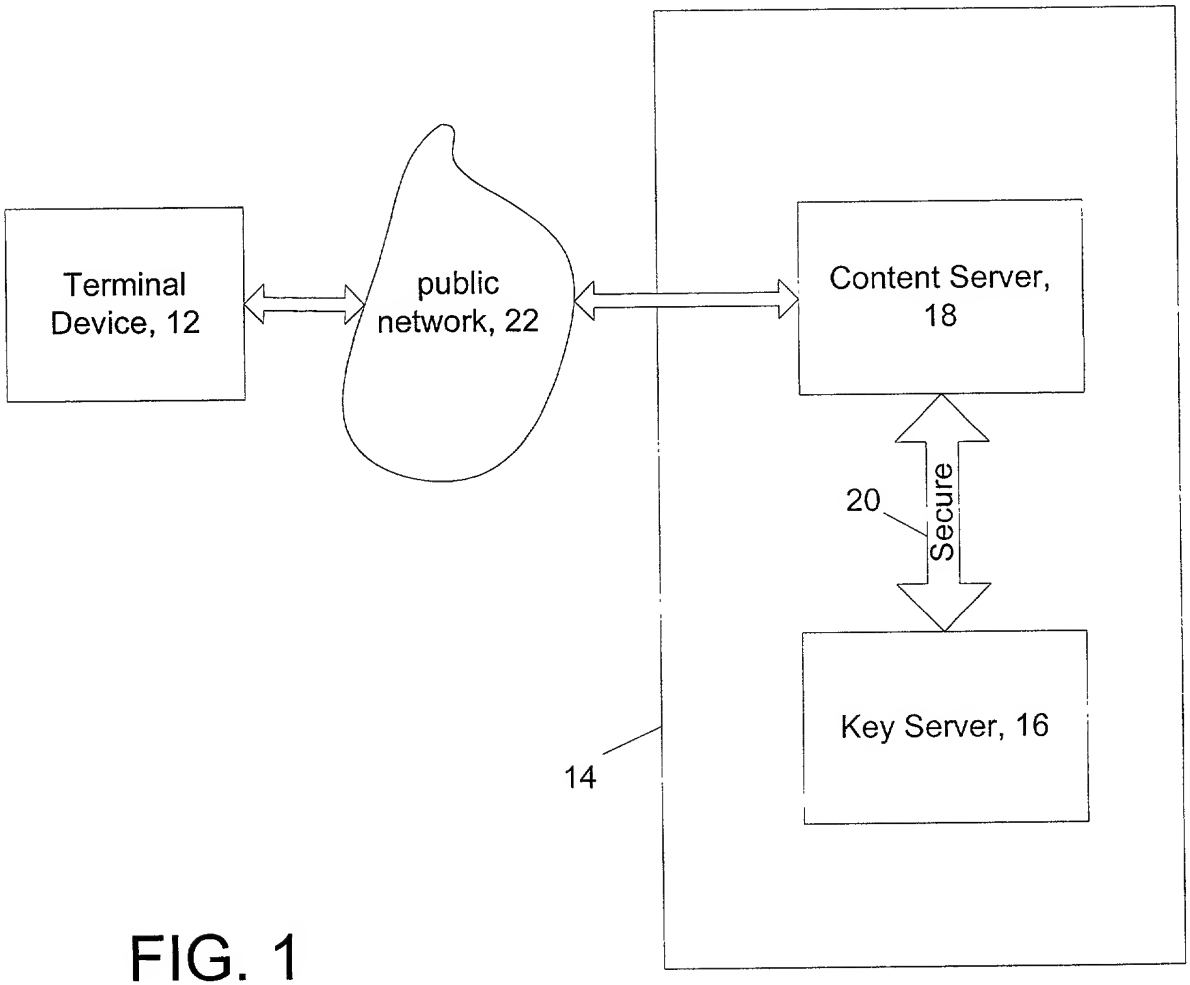

Terminal Device, 12
public network, 22
Content Server, 18
20
Secure
Key Server, 16
14

FIG. 1

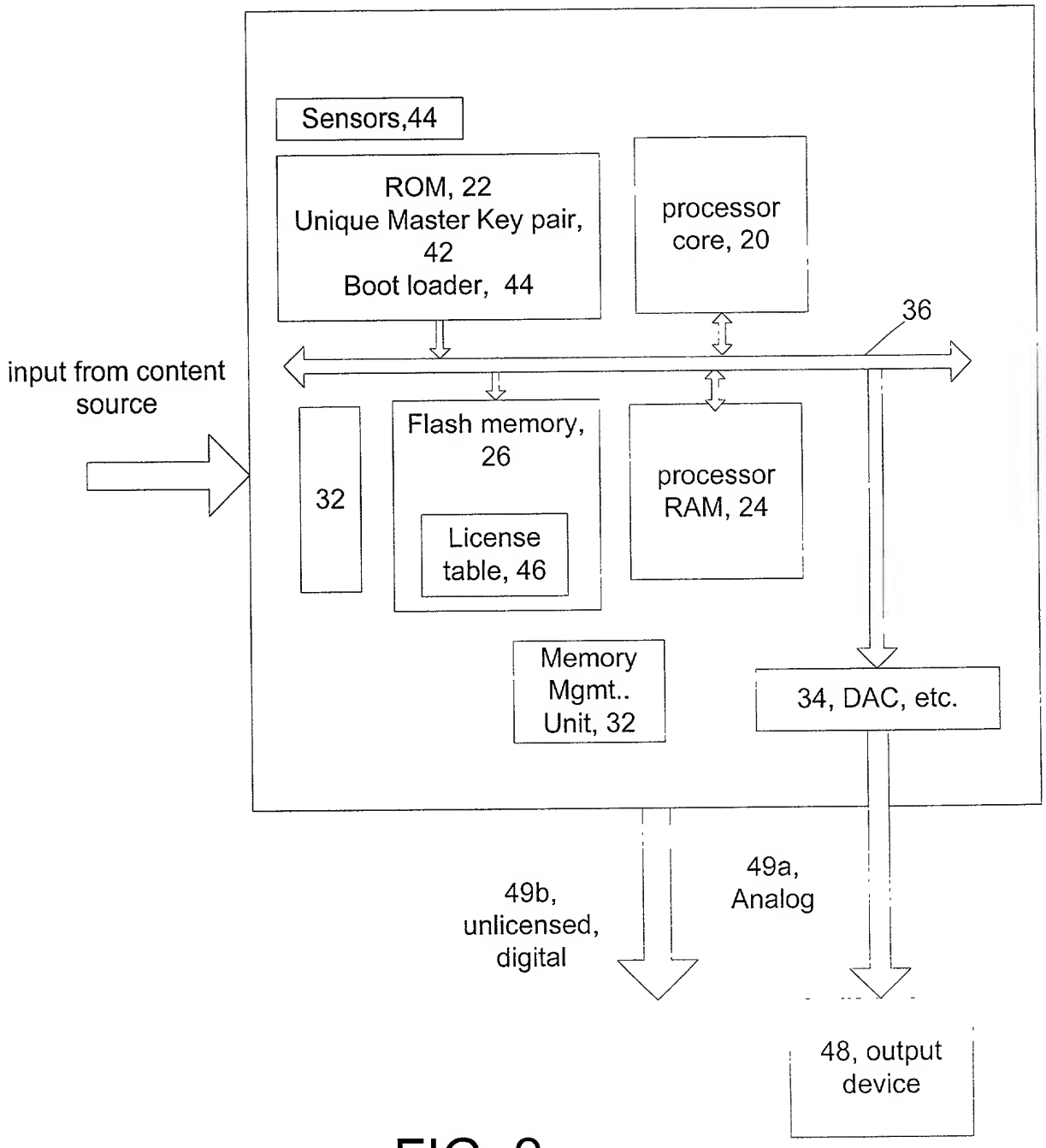

Sensors,44
ROM, 22
Unique Master Key pair, 42
Boot loader, 44
processor core, 20
36
input from content source
32
Flash memory, 26
License table, 46
processor RAM, 24
Memory Mgmt.. Unit, 32
34, DAC, etc.
49b, unlicensed, digital
49a, Analog
48, output device

FIG. 2

Microsoft v. Phoenix

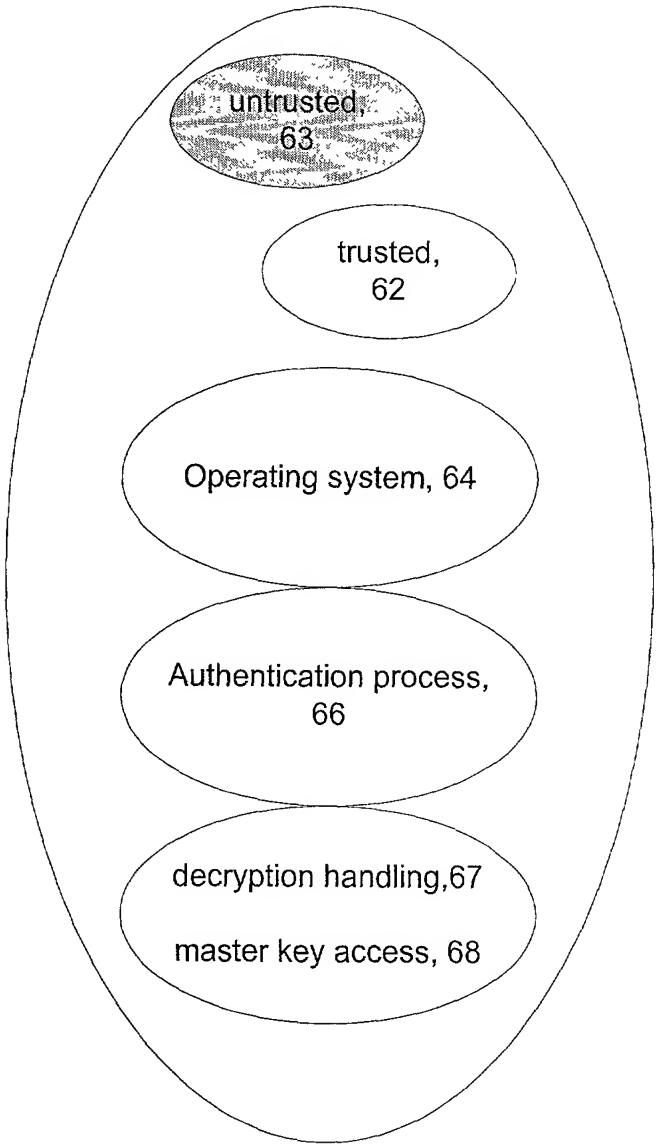


FIG. 3

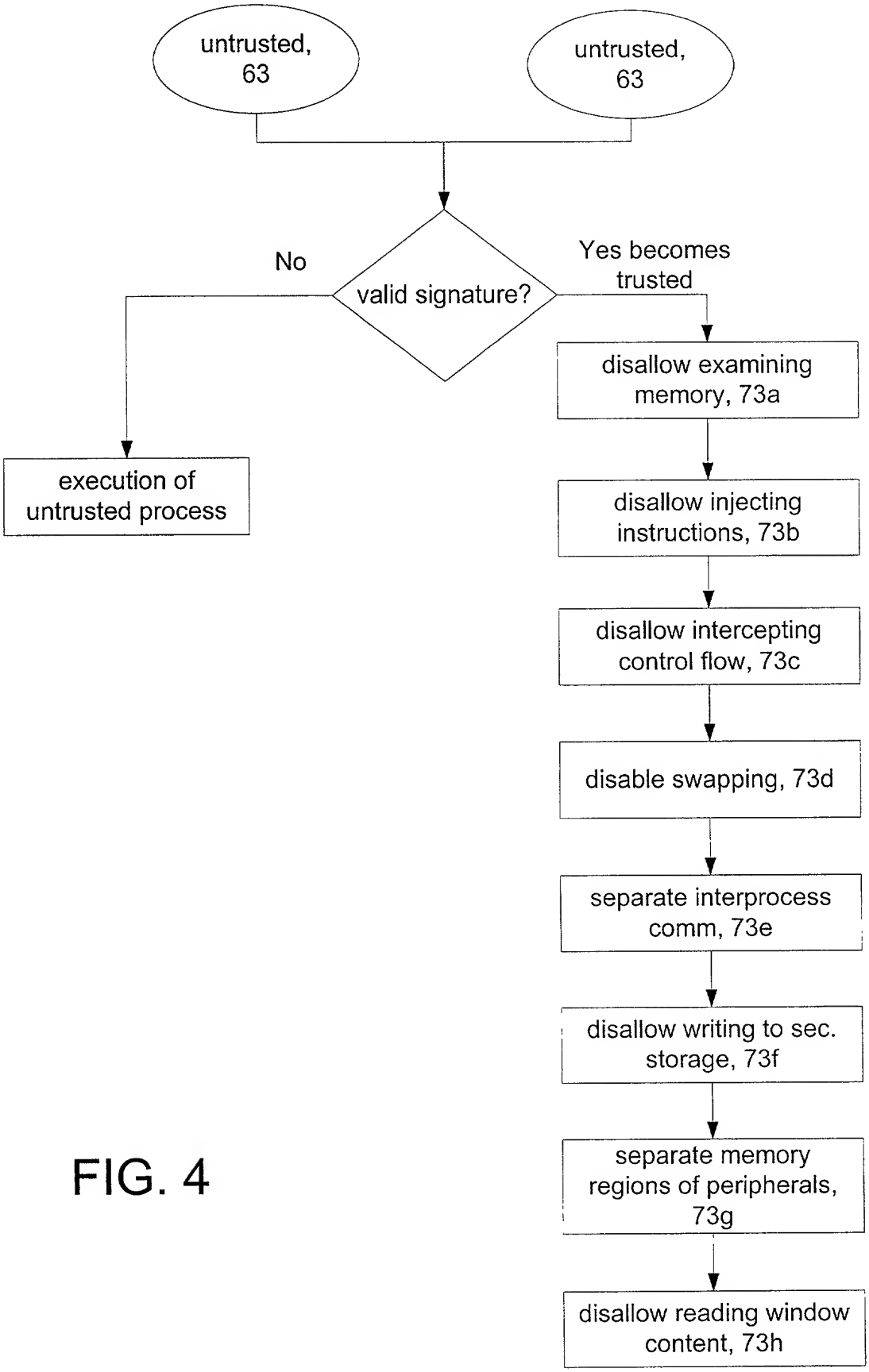

untrusted, 63
untrusted, 63
valid signature?
No
Yes becomes trusted
execution of untrusted process
disallow examining memory, 73a
disallow injecting instructions, 73b
disallow intercepting control flow, 73c
disable swapping, 73d
separate interprocess comm, 73e
disallow writing to sec. storage, 73f
separate memory regions of peripherals, 73g
disallow reading window content, 73h

FIG. 4

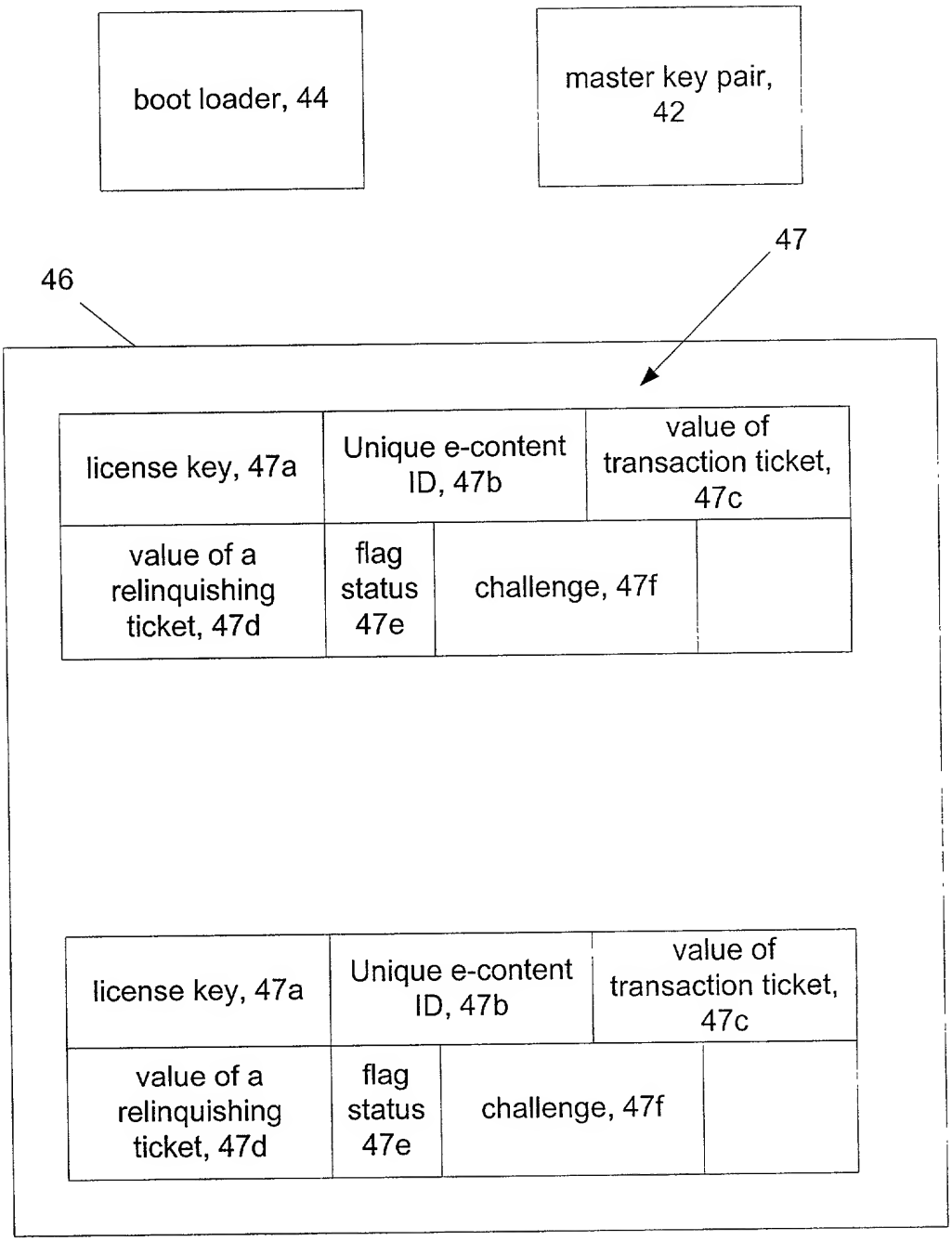
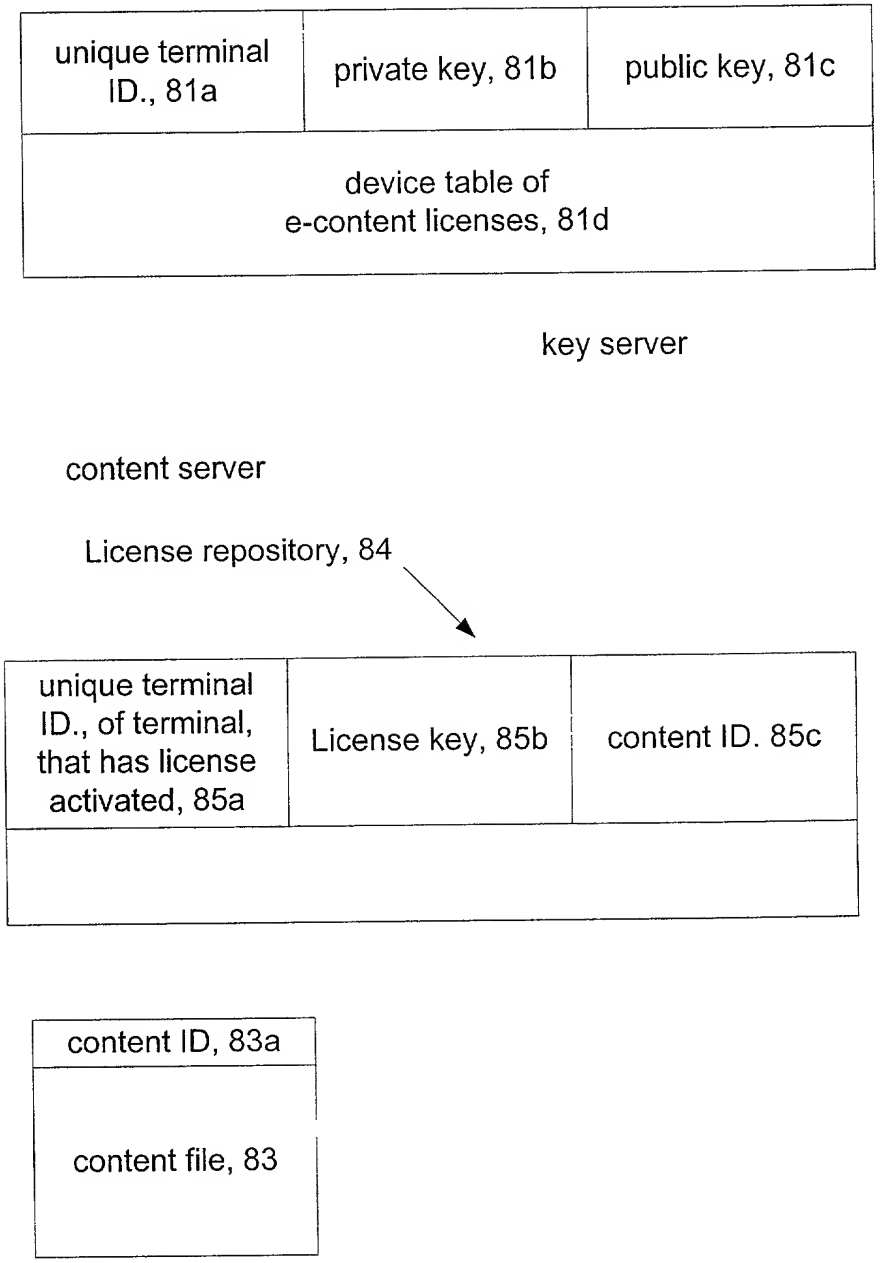

boot loader, 44
master key pair, 42
47
46
license key, 47a
Unique e-content ID, 47b
value of transaction ticket, 47c
value of a relinquishing ticket, 47d
flag status 47e
challenge, 47f
license key, 47a
Unique e-content ID, 47b
value of transaction ticket, 47c
value of a relinquishing ticket, 47d
flag status 47e
challenge, 47f

FIG. 5A

FIG. 5B


unique terminal ID., 81a
private key, 81b
public key, 81c
device table of e-content licenses, 81d
key server
content server
License repository, 84
unique terminal ID., of terminal, that has license activated, 85a
License key, 85b
content ID. 85c
content ID, 83a
content file, 83

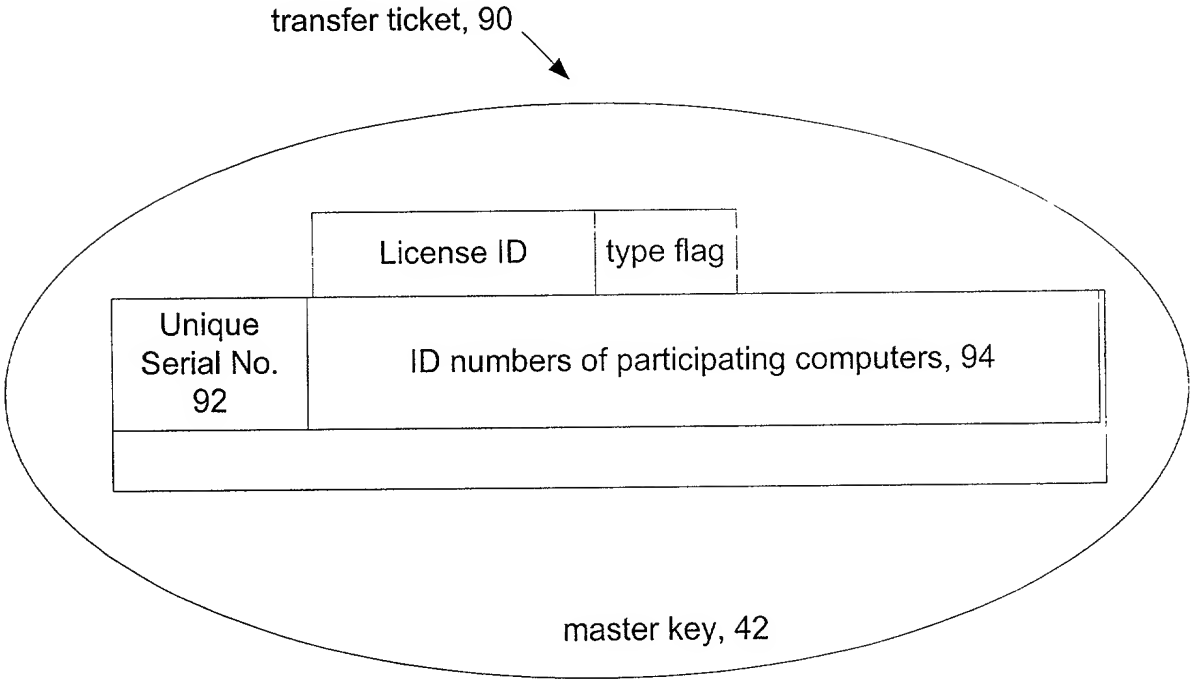


FIG. 6

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IPR2014-00454

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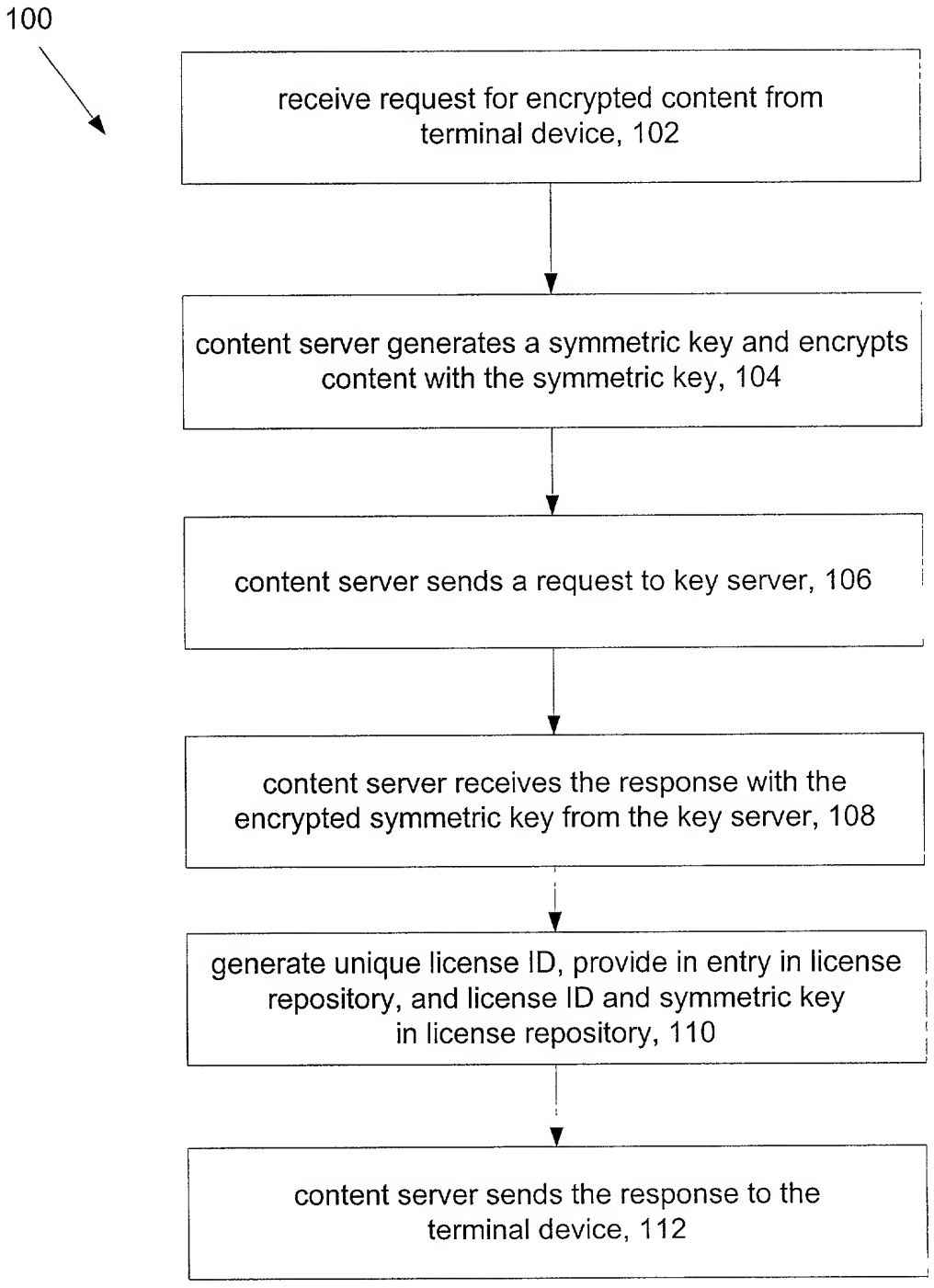

FIG. 7

FIG. 8

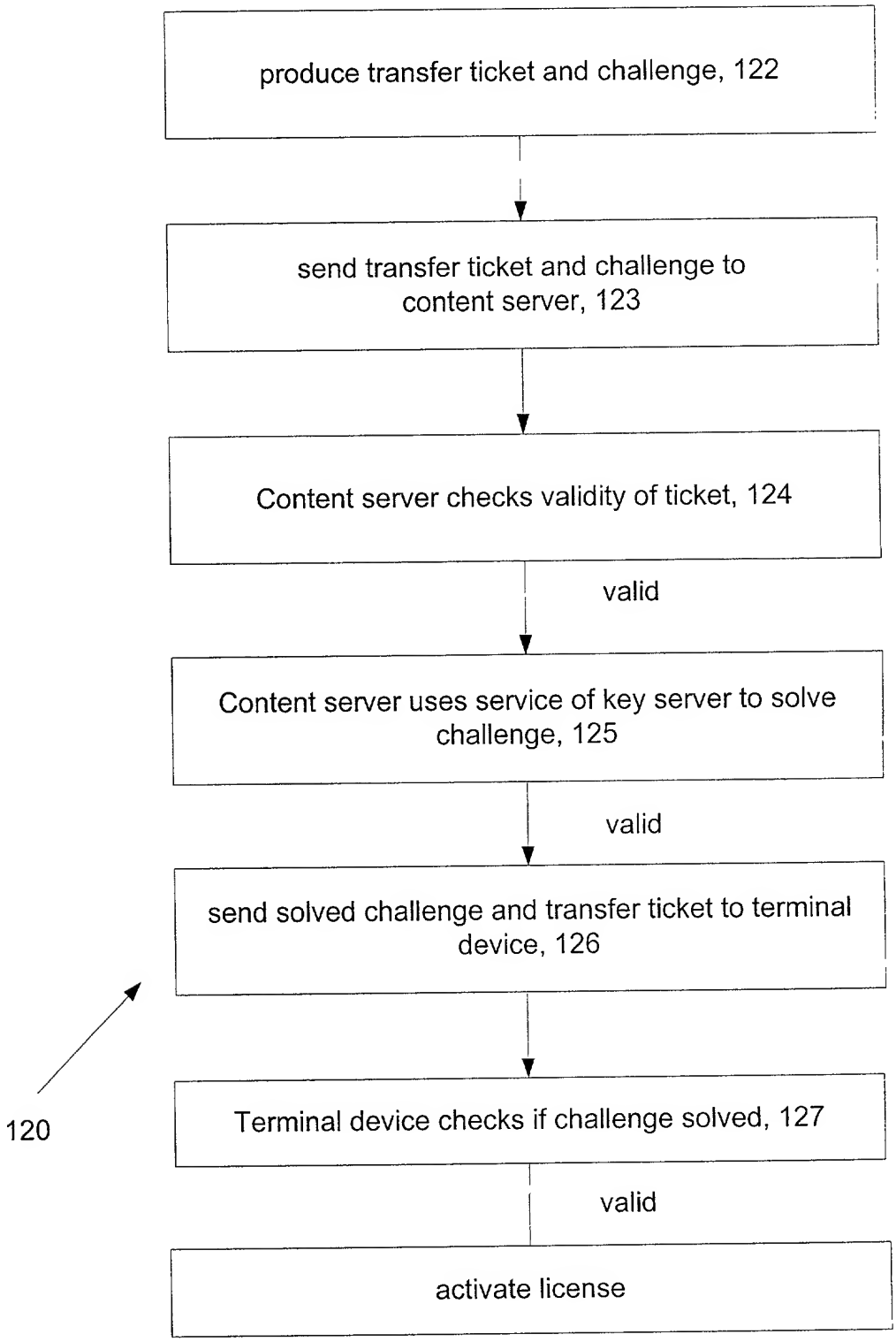
produce transfer ticket and challenge, 122
send transfer ticket and challenge to content server, 123
Content server checks validity of ticket, 124
valid
Content server uses service of key server to solve challenge, 125
valid
send solved challenge and transfer ticket to terminal device, 126
120
Terminal device checks if challenge solved, 127
valid
activate license

FIG. 9A

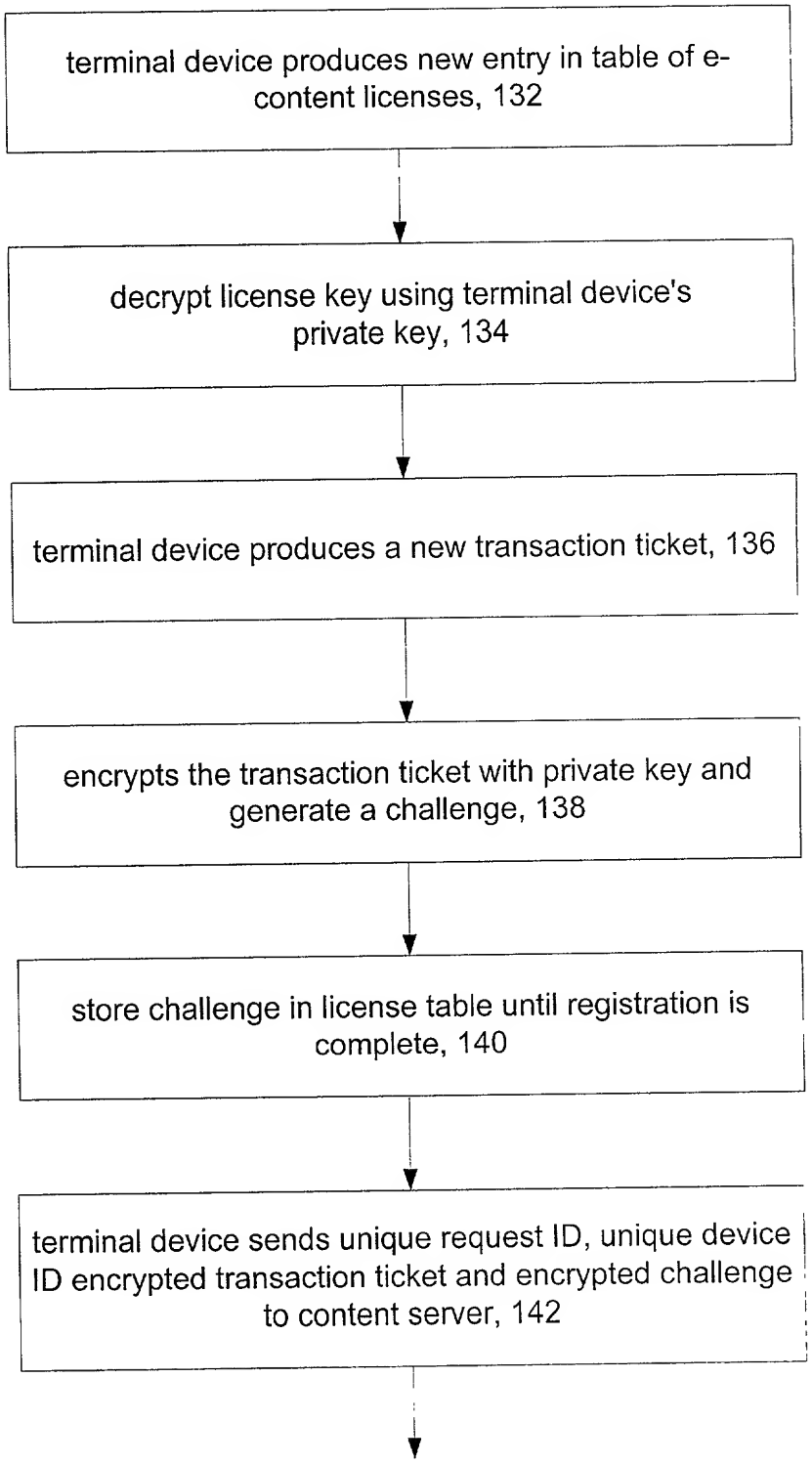

EXHIBIT 1008

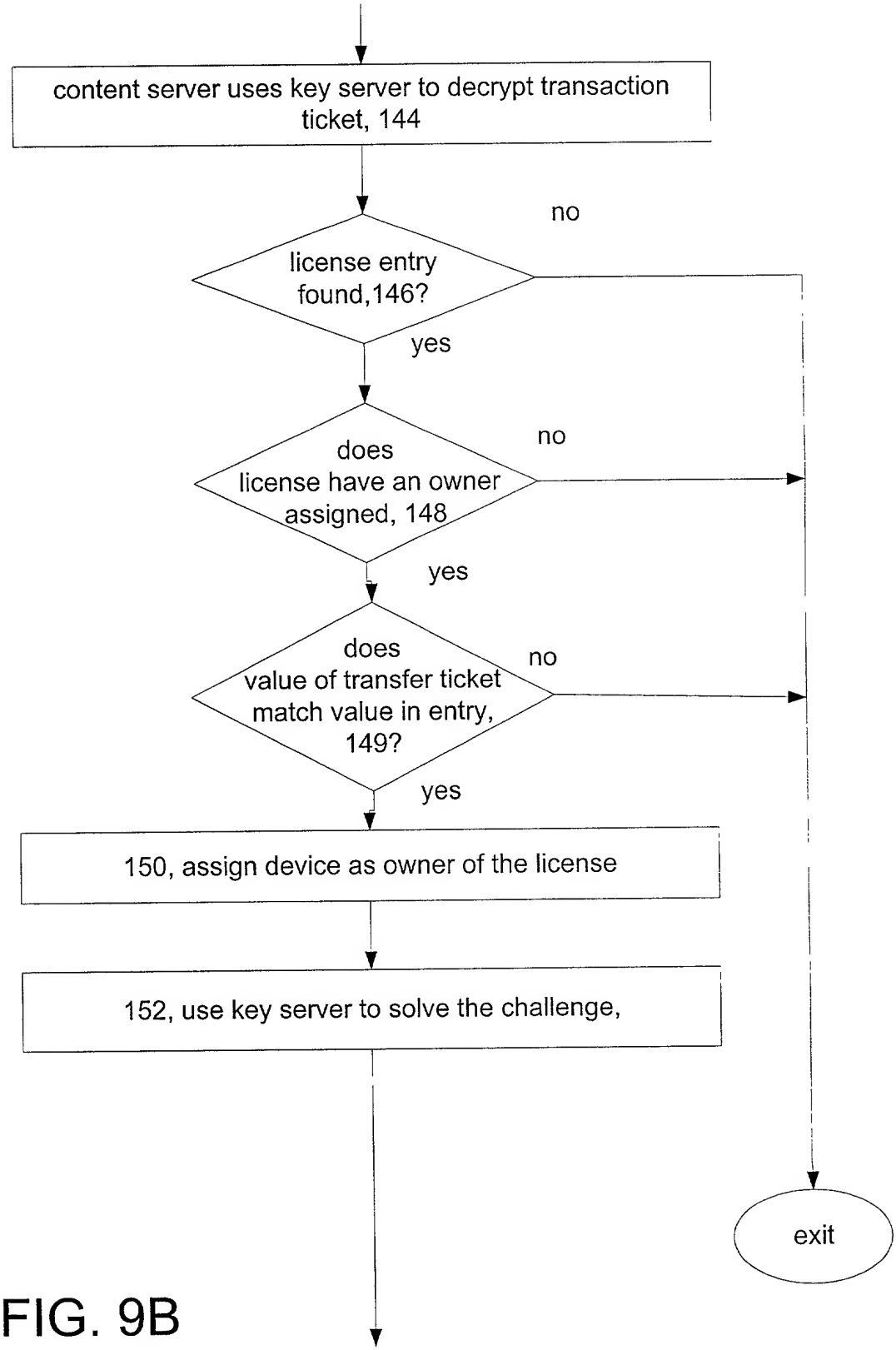
content server uses key server to decrypt transaction ticket, 144
license entry found,146?
no
yes
does license have an owner assigned, 148
no
yes
does value of transfer ticket match value in entry, 149?
no
yes
150, assign device as owner of the license
152, use key server to solve the challenge,
exit

FIG. 9B

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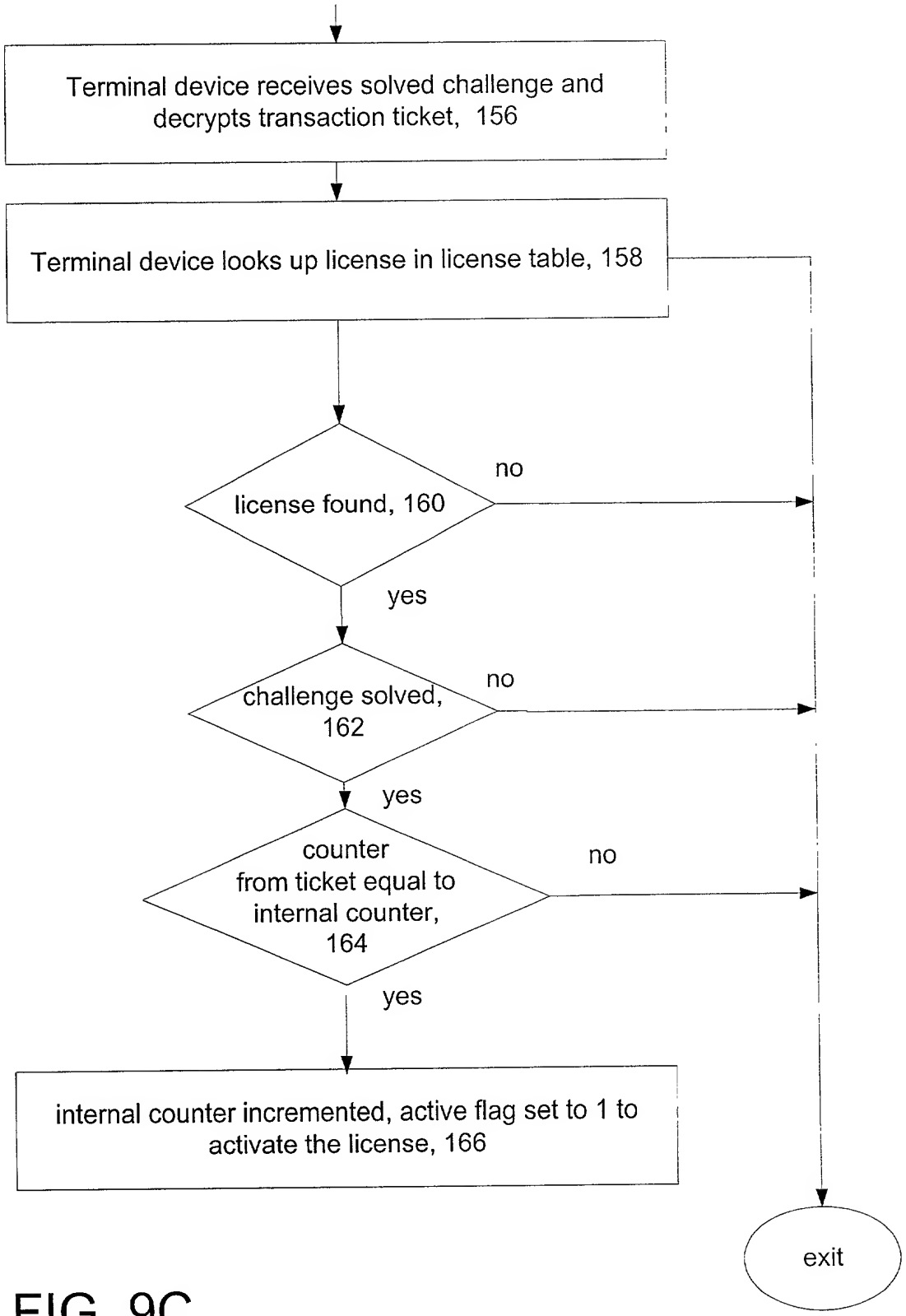

FIG. 9C

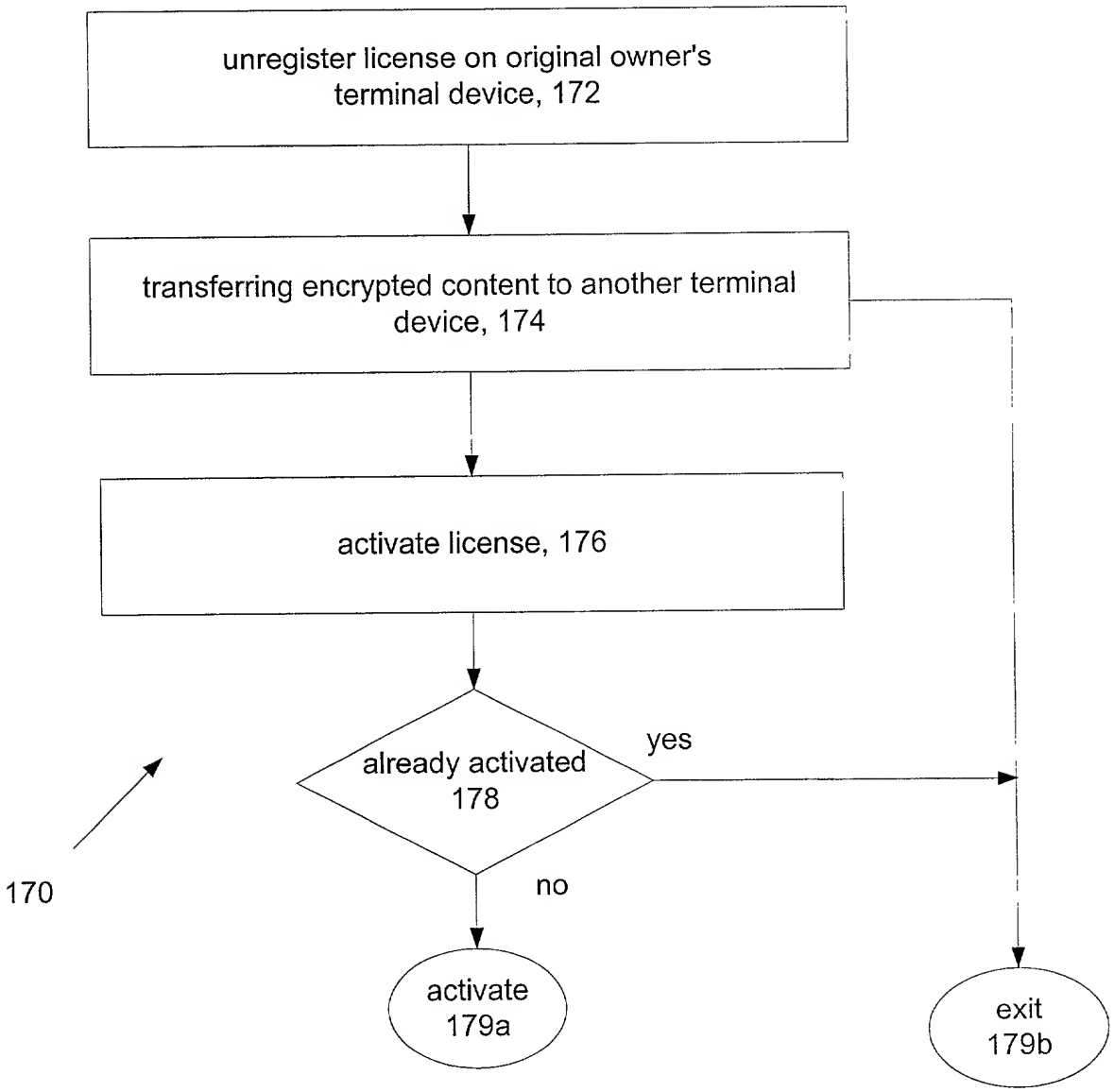
unregister license on original owner's terminal device, 172
transferring encrypted content to another terminal device, 174
activate license, 176
already activated 178
yes
no
170
activate 179a
exit 179b

FIG. 10

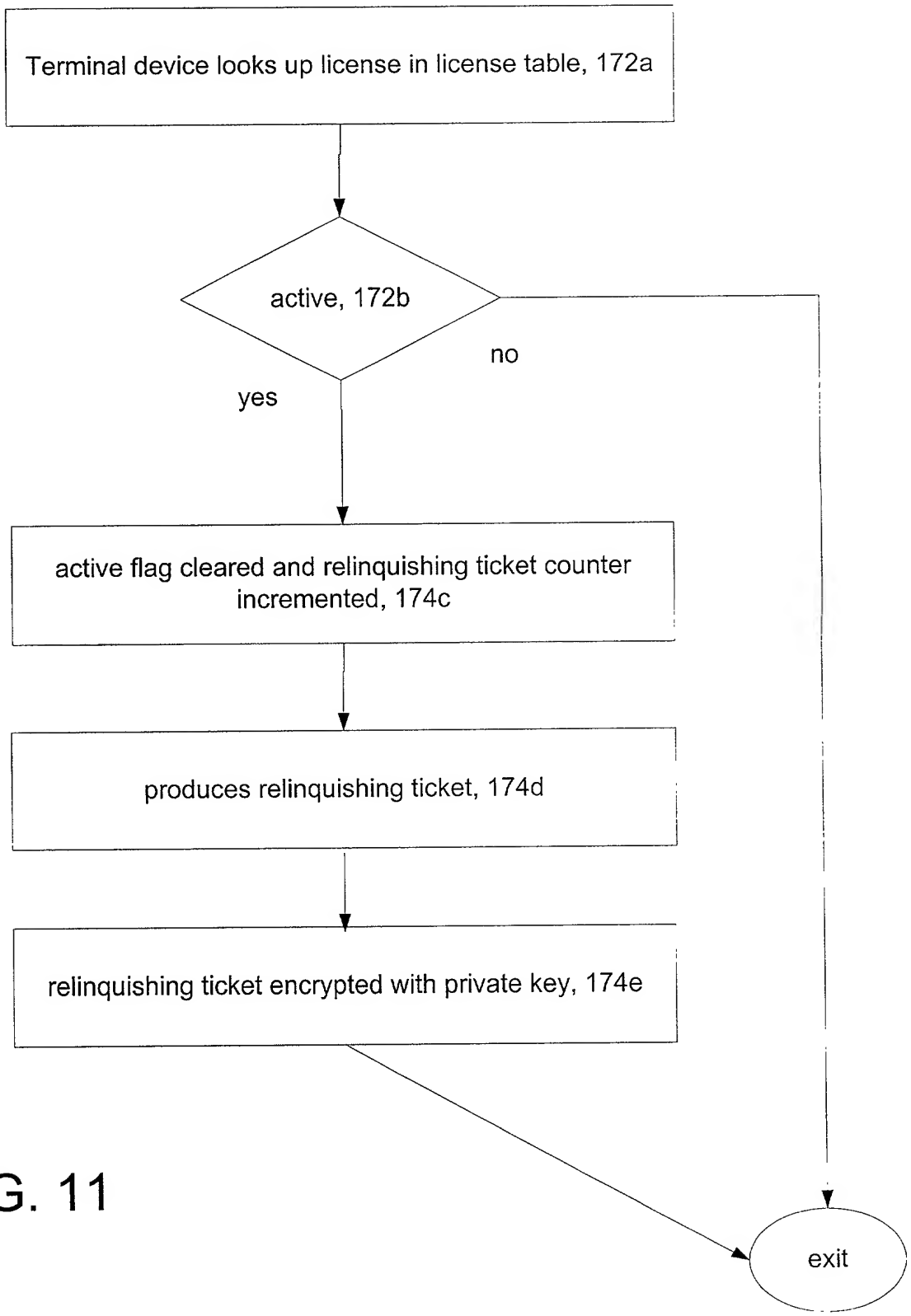

FIG. 11

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Microsoft Ex. 1004, p. 0169

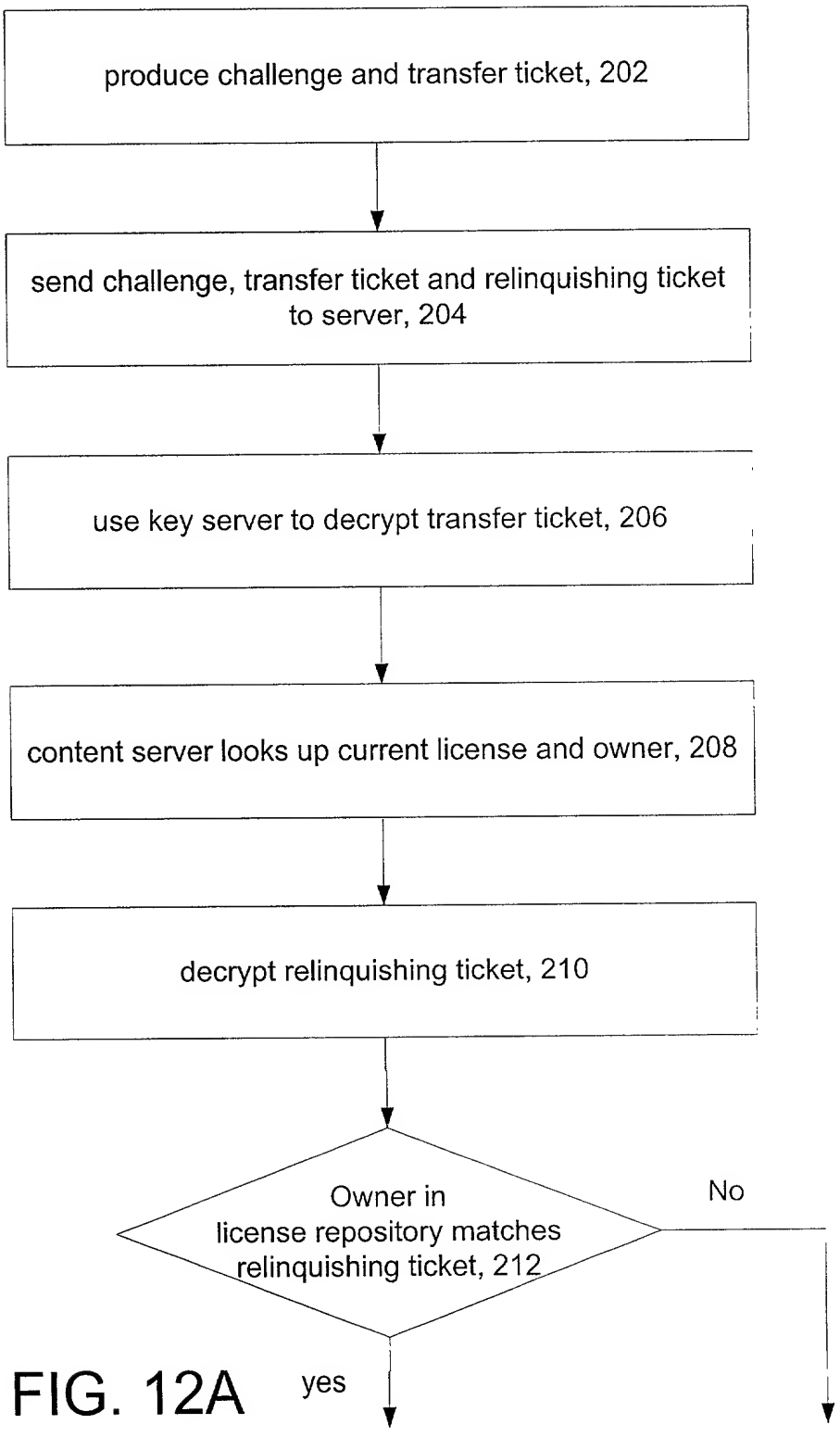

FIG. 12A

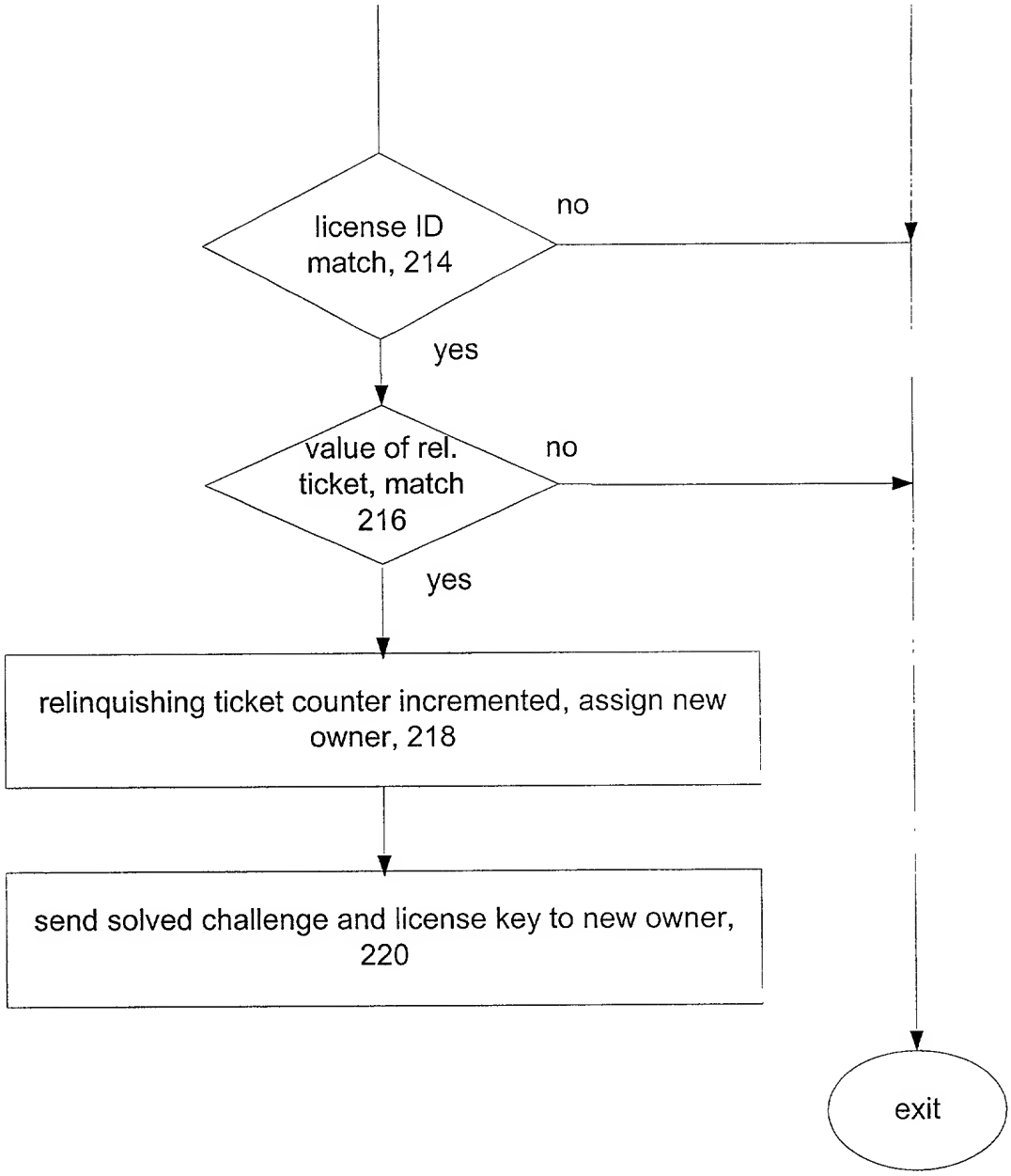
license ID match, 214
no
yes
value of rel. ticket, match 216
no
yes
relinquishing ticket counter incremented, assign new owner, 218
send solved challenge and license key to new owner, 220
exit

FIG. 12B

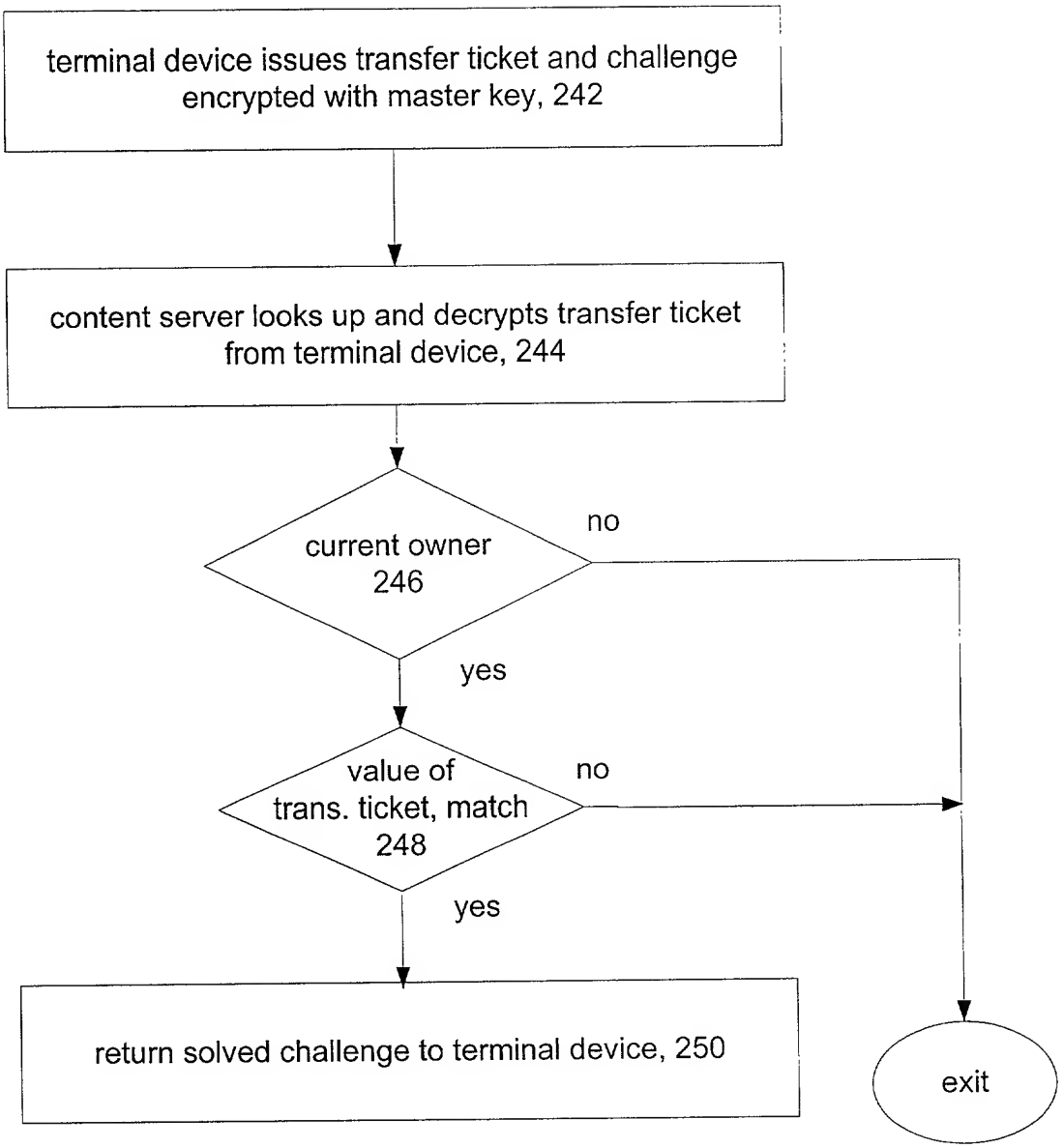
terminal device issues transfer ticket and challenge encrypted with master key, 242
content server looks up and decrypts transfer ticket from terminal device, 244
current owner 246
no
yes
value of trans. ticket, match 248
no
yes
return solved challenge to terminal device, 250
exit

FIG. 13